What is claimed is:

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- 1. In a channel estimator using a CIR (channel impulse response) estimating value, a channel estimator adopting masking, comprising a CIR masking unit removing a noise included in the CIR estimating value.
- 2. The channel estimator of claim 1, the CIR masking unit comprising:
- a mask signal generator generating a mask signal according to the CIR estimating value;
 - a CIR delayer matching a synchronization between the CIR estimating value and the mask signal; and
- a masking processor removing the noise by performing the

 15 masking so that the CIR estimating value is outputted only for a

 section where the mask signal exits.
 - 3. The channel estimator of claim 2, wherein the mask signal generator generates the mask signal based on a CIR critical value and a mask window size wherein the CIR critical value is a minimum value accredited with a real CIR.
 - 4. The channel estimator of claim 3, wherein the CIR critical value is set to a value between '0.1' and '0.2' when a

maximum value of a CIR is normalized as '1' on a situation that there exists no ghost at all.

- 5. The channel estimator of claim 3, wherein the mask window size is about ± 10 symbols centering around a CIR exceeding the CIR critical value.
 - 6. The channel estimator of claim 2, wherein the masking processor is a multiplexer selecting to output either the CIR estimating value or '0' according to the mask signal.

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- 7. The channel estimator of claim 2, wherein the masking processor is a multiplier multiplying the mask signal and the CIR estimating value together to output the CIR estimating value of a section where the mask signal is not '0'.
 - 8. A channel estimator adopting masking, comprising:
 - a trained sequence generator outputting a trained sequence;
- a cross correlator finding a cross correlating value between 20 a signal transmitted from an outside and the trained sequence;
 - a max value searcher detecting a maximum value of the cross correlating value by predetermined field unit;
 - a cross correlating vector generator outputting a cross correlating vector amounting to a CIR (channel impulse response)

estimating range based on the maximum value of the cross correlating value;

a ROM previously storing to output an inverse matrix of an auto correlating value of the trained sequence;

an operator finding a CIR estimating value using the inverse matrix of the auto correlating value and the cross correlating vector; and

a CIR masking unit removing a noise included in the CIR estimating value.

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- 9. The channel estimator of claim 8, the CIR masking unit comprising:
- a mask signal generator generating a mask signal according to the CIR estimating value;
- a CIR delayer matching a synchronization between the CIR estimating value and the mask signal; and
 - a masking processor removing the noise by performing the masking so that the CIR estimating value is outputted only for a section where the mask signal exits.

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10. The channel estimator of claim 9, wherein the mask signal generator generates the mask signal based on a CIR critical value and a mask window size wherein the CIR critical value is a minimum value accredited with a real CIR.

- 11. The channel estimator of claim 10, wherein the CIR critical value is set to a value between '0.1' and '0.2' when a maximum value of a CIR is normalized as '1' on a situation that there exists no ghost at all.
- 12. The channel estimator of claim 10, wherein the mask window size is about ± 10 symbols centering around a CIR exceeding the CIR critical value.

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- 13. The channel estimator of claim 9, wherein the masking processor is a multiplexer selecting to output either the CIR estimating value or '0' according to the mask signal.
- 14. The channel estimator of claim 9, wherein the masking processor is a multiplier multiplying the mask signal and the CIR estimating value together to output the CIR estimating value of a section where the mask signal is not '0'.
- 20 15. In an equalizer performing channel estimating through a CIR (channel impulse response) estimating value, a channel estimator adopting masking, comprising a CIR masking unit removing a noise included in the CIR estimating value.